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Certificate of Analysis

Product Name: Usnic acid

Other Name: Usninic acid

Catalogue No.: BP1427

Batch No.: 13051405

Reported Date: 2013-05-14

CAS Number: 125-46-2

Mol. Formula: C₁₈H₁₆O₇

Mol. Weight: 344.319

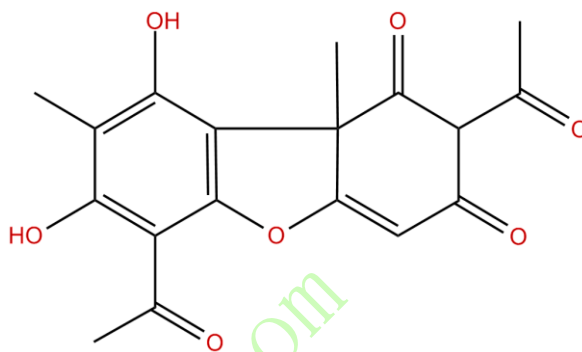
Botanical Source: Ramalina

Type of compound:

Identification Method: Mass, NMR

Analysis Method of Purity: HPLC-DAD

Structure:



Analytical result:

Test	Specification	Results
Appearance	Pale-yellow powder	Yellow powder
Loss on drying	<3.0%	1.0%
Purity (HPLC, 280nm)*	≥98.0%	99.04%

* Please find HPLC chromatography attached.

Package: Brown vial or HDPE Plastic Bottle

Storage: Cool and Dry place, protected from light, keep package airproofed when not in use.

Expiration: two years (2015-05-14) under conditions list above.

QC: *Meng Pan*

Date: 2013-05-14

QA: *Lianglei Zhang*

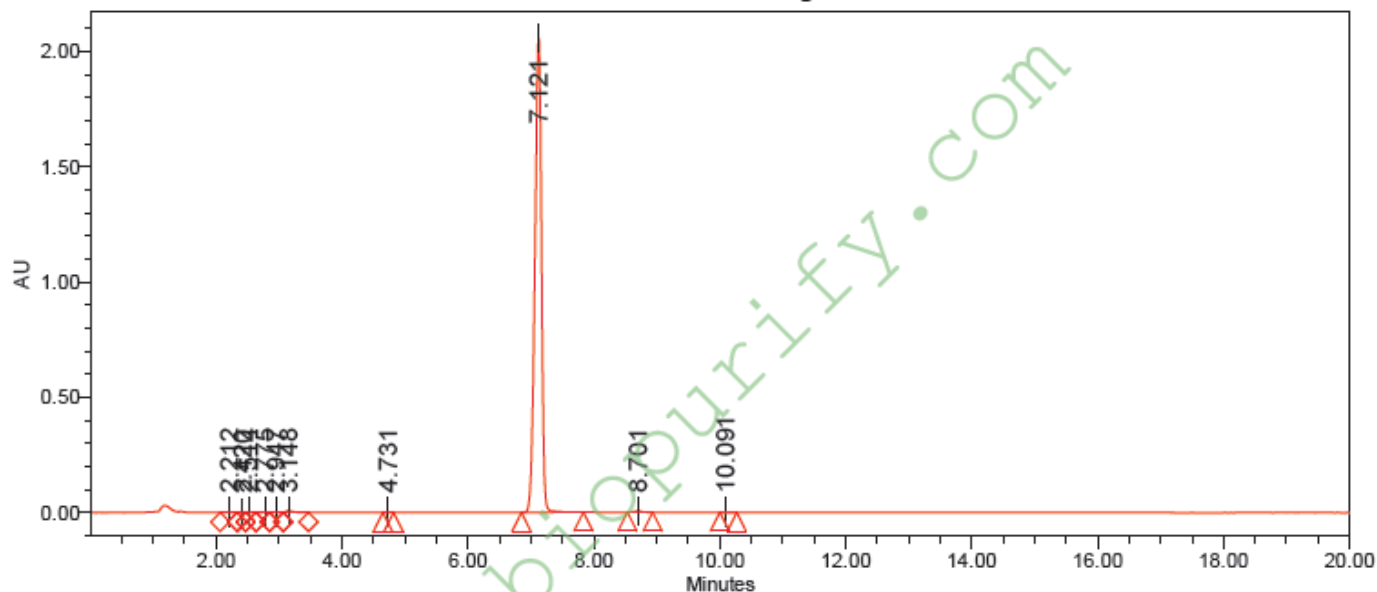
Date: 2013-05-14



SAMPLE INFORMATION

Sample Name:	Usnic acid13051405	Acquired By:	panmeng
Sample Type:	Unknown	Sample Set Name:	
Vial:	1:A,5	Acq. Method Set:	Usnic acid
Injection #:	1	Processing Method:	Samples
Injection Volume:	3.00 ul	Channel Name:	280.0nm
Run Time:	20.0 Minutes	Proc. Chnl. Descr.:	PDA 280.0 nm
Date Acquired:	5/14/2013 10:42:04 AM CST		
Date Processed:	5/14/2013 11:08:54 AM CST		

Auto-Scaled Chromatogram



Peak Results

	Name	RT	Area	% Area	USP Plate Count	USP Resolution
1		2.212	8140	0.05	7152.32	
2		2.420	2385	0.02		1.71
3		2.514	3114	0.02	3531.51	
4		2.775	9998	0.07		
5		2.947	14207	0.09		
6		3.148	54957	0.37	4492.16	
7		4.731	2614	0.02	17157.52	8.55
8		7.121	14910367	99.04	22575.08	14.39
9		8.701	44993	0.30	22415.20	7.30
10		10.091	3525	0.02	45018.97	6.36



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